AMENDMENTS TO THE CLAIMS

Please amend claims 15 and 20 and cancel claims 21-24 and 27-30, as listed in the following claims:

1. (Withdrawn) A plastic product covered with a clear coating, the product comprising:

a plastic substrate; and

a clear coating;

wherein the substrate having at least one surface covered by the clear coating through an in-mold-coating method.

2. (Withdrawn) A plastic product covered with a clear coating, the product comprising:

a plastic substrate;

a pigmented coating; and

a clear coating;

wherein the substrate has at least one surface covered by the pigmented coating through an in-mold-coating process; and wherein the pigmented coating is covered by the clear coating through the in-mold-coating process.

3. (Withdrawn) A plastic product covered with a clear coating, the product comprising:

a plastic substrate; and

a clear coating;

wherein the substrate has at least one surface covered by the clear coating; wherein the interactions between the at least one surface and the clear coating include covalent bonds; and wherein the clear coating is capable of resisting delamination and/or degradation caused by sunlight, heat, acid rain, and other weather-related factors, and capable of inhibiting fading of the surface of the substrate covered by the clear coating.

- 4. (Withdrawn) A plastic product according to claim 3, wherein the substrate comprises aromatic polyurethane.
- 5. (Withdrawn) A plastic product according to claim 4, wherein the clear coating comprises aliphatic polyurethane.
- 6. (Withdrawn) A plastic product according to claim 3, wherein the clear coating has a thickness of between 0.0001 inches and 0.025 inches.
- 7. (Withdrawn) A plastic product according to claim 3, wherein the clear coating has a thickness of between 0.0005 inches and 0.005 inches.
- 8. (Withdrawn) A plastic product according to claim 3, wherein the substrate comprises pigments.
- 9. (Withdrawn) A plastic product covered with a clear coating, the product comprising:

a plastic substrate;

a pigmented coating; and

a clear coating;

wherein the substrate has at least one surface covered by pigmented coating; wherein the pigmented coating is covered by the clear coating; wherein the interactions between the substrate's surface and the pigmented coating include covalent bonds; wherein the interactions between the pigmented coating and the clear coating include covalent bonds; and wherein the clear coating is capable of resisting delamination and/or degradation caused by sunlight, heat, acid rain, and other weather-related factors, and capable of inhibiting fading of the pigmented coating.

10. (Withdrawn) A composition for clear coating of in-mold-coating, comprising: a first unpigmented mixture including a polyol and a first solvent; and a second mixture including an aliphatic polyisocyanate and a second solvent; and wherein the first mixture and the second mixture have a volume ratio of between 1.5:1 and 3:1.

- 11. (Withdrawn) A composition according to claim 10, wherein the first solvent is selected from the group consisting of ketones, acetates and xylene.
- 12. (Withdrawn) A composition according to claim 10, wherein the second solvent is selected from the group of consisting of ketones, acetates and xylene.
- 13. (Withdrawn) A composition according to claim 12, wherein the first solvent is same as the second solvent.
- 14. (Withdrawn) A kit for in-mold clear coating of a substrate, the kit comprising, a first unpigmented mixture including a polyol and a first solvent; a second mixture, including an aliphatic polyisocyanate and a second solvent, for mixing with the first mixture at a volume ratio of between 1.5:1 and 3:1 to form a clear coat; a third pigmented mixture including a polyol and a third solvent; and
- a fourth mixture, including an aliphatic polyisocyanate and a fourth solvent, for mixing with the third mixture at a volume ratio of between 1.5:1 and 3:1 to form a pigmented coat.
- 15. (Currently amended) An in-mold coating method of preparing a plastic part with a clear-coat surface, the method comprising:

providing a mold having a mold surface having a predetermined degree of finish minimal surface roughness;

heating the mold to a temperature between approximately 40 degrees Celsius and approximately 95 degrees Celsius;

providing an unpigmented first-reactant/solvent mixture;

providing an unpigmented second-reactant/solvent mixture;

mixing the unpigmented first-reactant/solvent mixture and the unpigmented second-reactant/solvent mixture to form a clear-coat mixture:

spraying the clear-coat mixture onto the heated mold surface, the clear-coat mixture having an open time on the heated mold surface;

providing a pigmented third-reactant/solvent mixture;

providing a fourth-reactant/solvent mixture;

mixing the pigmented third-reactant/solvent mixture and the fourthreactant/solvent mixture to form a pigmented mixture;

spraying the pigmented mixture, during the open time of the clear-coat mixture, onto the clear-coat mixture previously sprayed onto the heated mold surface;

applying, over the sprayed pigmented mixture, a substrate-forming material, so as to create an uncured preform; and

allowing the preform to cure so as to form a substrate having a clear-coat surface, the clear-coat surface having a high gloss finish;

wherein the clear-coat mixture and the pigmented mixture are sprayed in an amount to form a total coating layer thickness substantially between 3.0 to 4.0 mils DFT.

- 16. (Original) The method according to claim 15, wherein the mold may be opened to permit spraying onto the mold surface; wherein the mold is closed after the pigmented mixture is sprayed onto the clear-coat mixture; and wherein the substrate-forming material is injected into the closed mold.
- 17. (Original) The method according to claim 15, wherein a barrier formulation is applied on the sprayed pigmented mixture so as to create an unreinforced barrier layer; wherein the substrate-forming material includes a polymeric-matrix-forming material and reinforcing components and is applied over the barrier layer; and wherein the preform is cured so as to form a composite with a reinforced substrate and a clear-coat pigmented surface.
- 18. (Original) The method according to claim 17, wherein the reinforcing components include fibers.

- 19. (Original) The method according to claim 15, wherein the unpigmented first-reactant/solvent mixture and the pigmented third-reactant/solvent mixture include polyol as a reactant, and wherein the second-reactant/solvent mixture and the fourth-reactant/solvent mixture include isocyanate as a reactant.
- 20. (Currently amended) The method according to claim 19, further comprising
- (a) mixing the unpigmented first-reactant/solvent mixture and the unpigmented second-reactant solvent mixture at a volume ratio substantially between 1.5:1 and 3.0:1, respectively, to form a combined the clear-coat mixture of unpigmented first-reactant/solvent mixture and unpigmented second-reactant/solvent mixture having a total volume fraction of solids substantially between 0.30 and 0.60; and
- (b) mixing the pigmented third-reactant/solvent mixture and the pigmented fourth-reactant solvent mixture at a volume ratio substantially between 1.5:1 and 3.0:1, respectively, to form a combined the pigmented mixture of pigmented third-reactant/solvent mixture and pigmented fourth reactant/solvent mixture having a total volume fraction of solids substantially between 0.30 and 0.60.
- 21. (Cancelled)
- 22. (Cancelled)
- 23. (Cancelled)
- 24. (Cancelled)
- 25. (Withdrawn) A plastic product covered with a clear coating, the product being made by a method comprising:

providing a mold having a mold surface having a predetermined degree of finish, the degree of finish such that a mating surface of cured polymer-based material fabricated in the mold would exhibit a "Class A" quality;

heating the mold to a temperature between approximately 40 degrees Celsius and approximately 95 degrees Celsius;

providing an unpigmented first-reactant/solvent mixture;

providing an unpigmented second-reactant/solvent mixture;

mixing the first-reactant/solvent mixture and the second-reactant/solvent mixture to form a clear-coat mixture;

spraying the clear-coat mixture onto the heated mold surface, the clear-coat mixture having an open time on the heated mold surface;

providing a pigmented third-reactant/solvent mixture having at least 40% solids; providing a fourth-reactant/solvent mixture;

mixing the third-reactant/solvent mixture and the fourth-reactant/solvent mixture to form a pigmented mixture;

spraying the pigmented mixture, during the open time of the clear-coat mixture, onto the clear-coat mixture previously sprayed onto the heated mold surface;

applying, over the sprayed pigmented mixture, a substrate-forming material, so as to create an uncured preform; and

allowing the preform to cure so as to form a substrate having a clear-coat surface.

26. (Withdrawn) A plastic product covered with a clear coating, the product being made by a method comprising:

providing a mold having a mold surface having a predetermined degree of finish, the degree of finish such that a mating surface of cured polymer-based material fabricated in the mold would exhibit a "Class A" quality;

heating the mold to a temperature between approximately 40 degrees Celsius and approximately 95 degrees Celsius;

providing an unpigmented first-reactant/solvent mixture;

providing an unpigmented second-reactant/solvent mixture;

mixing the unpigmented first-reactant/solvent mixture and the first reactant/solvent mixture to form a clear-coat mixture;

spraying the clear-coat mixture onto the heated mold surface, the clear-coat mixture having an open time on the heated mold surface;

applying, over the sprayed unpigmented mixture, during the open time of the clear-coat mixture, a substrate-forming material, so as to create an uncured preform; and allowing the preform to cure so as to form a substrate having a clear-coat surface.

- 27. (Cancelled)
- 28. (Cancelled)
- 29. (Cancelled)
- 30. (Cancelled)